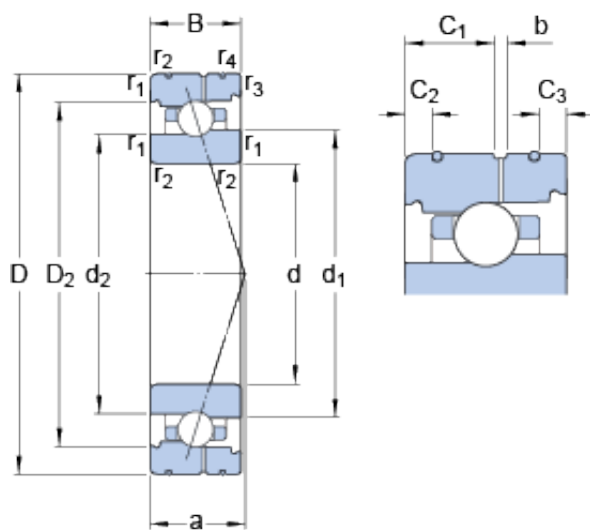




Bearing No. 7013 ACB/HCP4AL

b	1.5 mm
d	65 mm
a	28.4 mm
B	18 mm
D	100 mm
Ball - z	27
Size (mm)	100x65x18
Width (mm)	18
Mass bearing	0.45 kg
d ₂	76.36 mm
D ₂	89.69 mm
d _n	79 mm
C ₁	9.7 mm
C ₂	4.3 mm
C ₃	2.8 mm
C ₂	4.3 mm
C ₁	9.7 mm
d _n	79 mm
D ₂	89.69 mm
d ₂	76.36 mm
d ₁	78 mm
d ₁	78 mm
C ₃	2.8 mm
Bearing number	7013 ACB/HCP4AL
Preload class A	120 N/micron
Preload class B	153 N/micron
G _{ref}	5.49 cm3
Preload class C	230 N/micron
Number of balls z	27

Bore Diameter (mm)	100
r_b max.	0.6 mm
r_a max.	1 mm
D_b max.	96.8 mm
D_a max.	94 mm
d_a min.	71 mm
d_b min.	71 mm
Outer Diameter (mm)	65
r_b - max.	0.6 mm
$r_{3,4}$ min.	0.6 mm
d_b - min.	71 mm
D_a - max.	94 mm
D_b - max.	96.8 mm
$r_{1,2}$ min.	1.1 mm
d_a - min.	71 mm
r_a - max.	1 mm
Ball - D_w	7.144 mm
Calculation factor f	1.07
Calculation factor e	0.68
$r_{3,4}$ - min.	0.6 mm
Calculation factor - f	1.07
$r_{1,2}$ - min.	1.1 mm
Calculation factor - e	0.68
Ball diameter D_w	7.144 mm
Basic dynamic load rating C	19 kN
Preload class C G_C	510 N
Basic dynamic load rating - C	14.6 kN
Preload class B G_B	170 N
Preload class A G_A	85 N
Preload class C - G_C	510 N

Preload class A - G_A	85 N
Preload class B - G_B	170 N
Calculation factor f_1	0.99
Fatigue load limit P_u	0.52 kN
Calculation factor f_{HC}	1.01
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.02
Calculation factor f_{2A}	1
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Limiting speed for oil lubrication	30000 mm/min
Calculation factor - Y_1	0.92
Fatigue load limit - P_u	0.52 kN
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2B}	1.02
Limiting speed for grease lubrication	19000 r/min
Basic static load rating C_0	20 kN
Static axial stiffness, preload class A	120 N/ μ m
Static axial stiffness, preload class C	230 N/ μ m
Static axial stiffness, preload class B	153 N/ μ m
Attainable speed for grease lubrication	19000 r/min

Basic static load rating - C_0	12.2 kN
Attainable speed for oil-air lubrication	30000 r/min
Reference grease quantity G_{ref}	5.49 cm ³
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back-to-back, face-to-face) Y_1	0.92
Calculation factor (back-to-back, face-to-face) Y_2	1.41
Calculation factor (back-to-back, face-to-face) Y_0	0.76
Calculation factor (back-to-back, face-to-face) X_2	0.67